

1 SECTION 08210  
2 WOOD DOORS

3  
4 A. GENERAL

5  
6 RELATED WORK SPECIFIED ELSEWHERE

7		
8	Metal Frames	Section 08100
9	Hardware	Section 08700
10	Finish of Doors (Upon delivery)	Section 09900

11  
12 QUALITY ASSURANCE

13  
14 Obtain doors from a single manufacturer to ensure uniformity in quality of appearances and construction, unless  
15 otherwise indicated.

16  
17 The hardware supplier shall coordinate all hardware items to be installed in or on doors with the supplier of those  
18 items to assure proper fit, reinforcing and operation.

19  
20 Comply with the applicable requirements of the following standards unless otherwise indicated:

- 21 • ANSI/WDMA I.S.1-A, "Industry Standard for Architectural Wood Flush Doors".
- 22 • ANSI/WDMA I.S.6-A, "Industry Standards for Architectural Wood Stile and Rail Doors."
- 23 • AWI Quality Standard: Section 1300 of "Architectural Woodwork Quality Standards," Latest Edition,  
24 published by the Architectural Woodwork Institute (AWI). Designations for grade and core construction  
25 under types of doors refer to this standard.

26  
27 FIRE-RATED WOOD DOORS

28  
29 Where noted on the Drawings, furnish doors bearing the label of Underwriters Laboratories, Inc., or Factory Mutual  
30 Engineering Corp., indicating the applicable rating and wall opening classification specified. Doors shall bear  
31 labels from the same agency as the frames.

32  
33 SUBMITTALS

34  
35 Submit door manufacturer's product data, specifications and installation instructions for each type of wood door in  
36 accordance with Section 1B, Shop Drawings/Submittals. Include details of core and edge construction, trim for  
37 openings and similar components.

38  
39 Shop Drawings shall be submitted in accordance with Section 1B, Shop Drawings/Submittals. Indicate location  
40 and size of each door, elevation of each kind of door, details of construction, location and extent of hardware  
41 blocking, fire rating, and other pertinent data.

42  
43 PRODUCT DELIVERY, STORAGE, AND HANDLING

44  
45 Wood doors shall not be delivered until the building or storage area is enclosed and sufficiently dry so that doors  
46 will not be damaged by excessive changes in moisture content. Identify each door as to type and location.

47  
48 SPECIAL PROJECT WARRANTY

49  
50 Submit to the Government two copies of a written agreement on the door manufacturer's standard form signed by  
51 the Manufacturer and Installer, agreeing to repair or replace defective doors which have warped (bow, cup or twist)  
52 or which show telegraphing of core construction below in face veneers, or do not otherwise conform to tolerance  
53 limitations of referenced quality standards. Warranty shall include installation and finishing of replacement doors.

54  
55 Warranty shall be in effect during the following period of time after the Substantial Completion Date:  
56 Solid Core Flush Interior Doors: Life of Installation

1 B. PRODUCTS

2  
3 MANUFACTURERS

4  
5 Wood doors shall be manufactured by one of the following, or approved equal:

6 Algoma Hardwoods, Inc.  
7 Eggers Industries, Architectural Door Division  
8 Weyerhaeuser Company  
9 VT Industries  
10 Graham Manufacturing Corp.

11  
12 MATERIALS

13  
14 Provide wood doors complying with applicable requirements of referenced standards for kinds and types of doors  
15 indicated and as specified.

16  
17 Face panels shall be the manufacturer's standard 2 or 3-ply face panels, unless otherwise indicated.

18  
19 FABRICATION OF WOOD DOORS

20  
21 Interior solid core flush doors for transparent finish shall include the following:

22 Faces	Plain Sliced Red Oak
23 AWI Grade	Custom
24 Construction	PC-5 ME (5 ply Particleboard core), or Graham GPD-PC (7 ply 25 particleboard core). No other 7 ply doors and no stave lumber 26 core doors allowed.
27 Edges	Matching Hardwood (1/16 thick minimum)
28 Thickness	1 3/4 inches

29  
30 Fire-rated doors shall be solid core and shall include the following:

31 Faces and Grade	Match non-rated doors unless noted otherwise
32 Construction	Manufacturer's standard core construction as required to provide fire- 33 resistant rating indicated, however, no stave lumber core doors 34 allowed.
35 Edges	Matching hardwood (1/16 thick minimum with built-in intumescent strip)
36 Edge Construction	Provide manufacturer's standard laminated edge construction for 37 improved screw-holding capacity and split resistance. Edges 38 composed of a single layer of treated lumber will not be 39 acceptable.
40 Thickness	1 3/4 inches

41  
42 MISCELLANEOUS FABRICATION REQUIREMENTS

43  
44 Fire-rated wood doors shall meet the 2006 International Building Code (IBC) requirements for Category A positive  
45 pressure fire door construction. No intumescent will be allowed on the door frame, and intumescent shall not be  
46 visible on the vertical edges of the doors.

47  
48 Doors shall be sanded and ready for field-applied finish as specified in Section 09900.

49  
50 Presize all doors at the mill as described below:

- 51 1. Bevel doors 1/8-inch in 2 inches at lock and hinge edges.
  - 52 2. Provide clearances of 1/8-inch at jambs and heads.
  - 53 3. Provide clearance of 1/8-inch at meeting stiles for pairs of doors.
  - 54 4. Provide clearance of 7/16-inch from bottom of door to top of decorative floor finish or covering where no  
55 threshold is scheduled.
  - 56 5. For fire-rated doors, provide clearances complying with NFPA 80.
- 57  
58  
59

1 HARDWARE PREPARATION

2  
3 Preparation of all wood doors for specified hardware shall be done at the job site or at the mill.

4  
5 C. EXECUTION

6  
7 GENERAL

8  
9 Condition doors to average prevailing humidity in installation area prior to hanging.

10  
11 Check all frames prior to installation for size, swing, squareness, alignment, twist and plumbness. Bring  
12 unacceptable conditions to the attention of the Contractor for repair prior to installation of doors.

13  
14 Install wood doors in accordance with the manufacturer's written instructions and as shown on the Drawings.

15  
16 Fit doors to frame for proper fit and machine for hardware using templates supplied by the Hardware Supplier.

17  
18 INSTALLATION OF FIRE-RATED DOORS

19  
20 Install fire-rated doors in corresponding fire-rated frames in accordance with the requirements of NFPA 80.